

ABSTRACT OF THE DISCLOSURE

An air suspension system includes an air spring having an air cell and a piston. Preferably, the air cell tightly conforms to the piston and has a frustro-conical tapered configuration. By providing a tight conformal fit between the piston and the air cell, and
5 by expanding the diameter of the air cell therefrom, the likelihood that the air cell will invert is substantially decreased. Similarly, when the air cell is deflated the taper facilitates the air cell obtaining the original rolled or deflated position. In another embodiment, the damper slows the extension of the longitudinal member to provide more time for an anti-vacuum system to equalize the pressure within the air cell.

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